1637

PATENT

#14

7/17/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to Commissioner of Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on May 15, 2003.

Elise D. Bray

Applicant	:	J. David Rozzell, Jr., et al.
Application No.	:	09/734,237
Filed	:	December 8, 2000
Title	:	SYNTHETIC GENES FOR ENHANCED EXPRESSION
Grp./Div.	:	1637
Examiner	:	Young J. Kim
Docket No.	:	40608/KMO/B583

LETTER TO CORRECT PUBLICATION

Mail Stop PGPub
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

P.O. Box 7068
Pasadena, CA 91109-7068
May 15, 2003

Commissioner:

When proofing the Publication for the above-identified application, we located an error in the title and in the correspondence address. The title of this application should read: SYNTHETIC GENES FOR ENHANCED EXPRESSION. The correspondence address should read:

Christie, Parker & Hale, LLP
350 West Colorado Boulevard
Suite 500
Pasadena, CA 91105

A copy of the first page of the publication with errors indicated is enclosed. Please forward a corrected Publication to the undersigned.

Respectfully submitted,
CHRISTIE, PARKER & HALE, LLP

By _____
Kathleen M. Olster
Reg. No. 42,052
(626) 795-9900

KMO/edb
EDB PAS502916.1-*-5/15/03 11:10 AM

US 20030064432A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2003/0064432 A1

Rozzell, JR. et al. (43) Pub. Date: Apr. 3, 2003

(54) MICE MODELS OF HUMAN PROSTATE CANCER

(76) Inventors: J. David Rozzell JR., Burbank, CA (US); Peter Bui, El Monte, CA (US); Ling Hua, Arcadia, CA (US)

Correspondence Address:
MANDEL & ADRIANO
35 N. ARROYO PARKWAY
SUITE 60
PASADENA, CA 91103 (US)

(21) Appl. No.: 09/734,237

(22) Filed: Dec. 8, 2000

Related U.S. Application Data

(63) Continuation-in-part of application No. 09/494,921, filed on Jan. 31, 2000, now Pat. No. 6,366,860.

Publication Classification

(51) Int. Cl.[7] C07K 14/00; C12P 21/02; C12N 5/06; C07H 21/04

(52) U.S. Cl. 435/69.1; 435/325; 435/320.1; 536/23.1; 530/350

(57) ABSTRACT

A synthetic nucleic acid sequence is disclosed, comprising a non-naturally occurring polymer of nucleic acids, having a biological function encoded by the sequence and known from a starting nucleic acid sequence, and having a difference in sequence of at least about 5% between the nucleic acids of the synthetic sequence and the starting sequence. The difference between the nucleic acid sequences results in a different free energy of folding for the synthetic sequence as compared to the starting sequence, such that the synthetic sequence would be expressed better in a selected heterologous host cell than the starting sequence would be if expressed in the same heterologous host cell.

C atg GGT cac ggc tcc aac aaA ctG ccG ggC ttt gcT acc cgC
gcT atC cac caC ggT taT gac ccG cag gaT cac ggT ggT gca ctg
gtT ccG ccg gtT tac cag acT gcT acT ttc acc ttc ccG acc gtT
gaa tac ggc gct gcg tgc ttt gcT ggc gaA cag gcT ggT caC ttc
tac TCC cgT atc tcc aac ccG acc ctG aac ctg ctg gaa gca cgT
atg gcA tcT ctg gaa ggc ggc gaA gcT ggT ctg gcg ctg gcA tcT
ggT atg ggC gcg atc acC tcT acC ctG tgg acC ctg ctg cgT ccG
ggt gac gaA gtT ctg ctg ggc aac acc ctg taT ggT tgT acT ttt
gcT ttc ctg cac cac ggT atc ggT gaA ttc ggC gtT aaA ctg cgT
caC gtA gaT atg gct gac ctg cag gca ctg gaA gcg gcT atg acC
ccg gcT acc cgT gtT atc taC ttc gaA tcC ccg gcT aac ccG aac
atg cac atg gcT gaC atc gcA ggT gtT gcT aaA atC gcT cgT aag
cac ggc gcT acc gtA gtT gtT gaT aac acc tac tgT acT ccg tac
ctg caA cgT ccG ctg gaA ctg ggc gcT gac ctg gtT gtT caC tcC
gcT acT aaA tac ctg TCC ggc caC ggc gac atc act gct ggc atC
gtA gtA ggc TCC cag gca ctg gtT gac cgt atC cgt ctg caA ggT
ctG aaA gac atg acc ggc gcT gtT ctG tcC ccG caC gac gcA gca
ctg Ctg atg cgT ggT atc aag acc ctG aac ctg cgT atg gac cgT
cac tgT gcT aac gct cag gtA ctg gcT gaA ttc ctG gcT cgT cag
ccg cag gtA gaA ctg atc caC taT ccg ggc ctg gcT TCC ttc ccg
cag tac acT ctg gcA cgT cag cag atg TCC cag ccg ggc ggT atg
atc gcT ttc gaa ctG aag ggT ggc atc ggC gcT ggT cgT cgT ttc
atg aac gcT ctg caG ctg ttc TCC cgT gcg gtT TCC ctg ggT gaC
gcT gaA tcC ctg gcg cag cac ccg gca TCC atg act caC tcc TCC
taC acT ccG gaA gaA cgt gcg caC tac ggc atc tcc gaA ggC ctg
gtT cgT Ctg tcT gtT ggT ctg gaa gac atc gaT gaT ctg ctg gcA
gaC gtT caG cag gcT ctG aag gcT agC gcT tga GGA TCC